

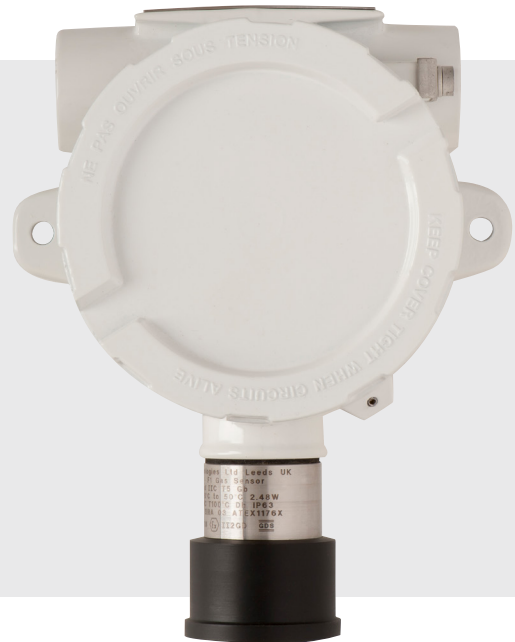
XDI-PID

HAZARDOUS AREA GAS DETECTOR

Remote Fixed Gas Detection

Specification Sheet
ref C1505-C v.4

- Explosion proof
- Flexible output options
- Addressable or stand alone
- Hyper terminal communications / RS232 – live data and set up with 232 adapter
- One man calibration
- 2 alarm relays plus fault relay or 3 alarm relay
- data logging



The XDI-PID (photoionization detector) is used to measure a broad range of volatile organic compounds in the low ranges of 0 to 50ppm and 0 to 1000ppm. The unit is fully certified as a flameproof fixed monitor for use in hazardous areas. 4~20mA signaling with CANbus address enables the sensors to be networked via the GDS Combi control system or customer preferred monitoring systems.

Certification

Explosion proof ATEX-IECEX UKEx
II 2G Ex db IIC T6...T4 Gb
II 2D Ex tb IIIC T85°C...T135°C Db

Power Supply

18 to 35vDC 24v nominal

Outputs

3 wire analog 4~20mA

4 wire CANbus

Optional Relays

Low alarm S.P.C.O

High alarm S.P.C.O

Fault alarm S.P.C.O / overrange

Rating 0.5A @30vDC

Inhibit option during servicing

Logging

Intervals – variable time

Roll over/stop

Storage – 2,880 readings

Housing Material

Copper free aluminium alloy, optional stainless steel

Finish

Chemical resistant epoxy paint, Ral 9003 signal white

Optional – Marine grade finish

Ingress Protection

IP64 + water shield IP65

with hydrophobic screen IP66

Cable Entry

2 x M20 – 1.5 pitch – alternatives 25mm – 3/4 NPT

Weight

1.6kg

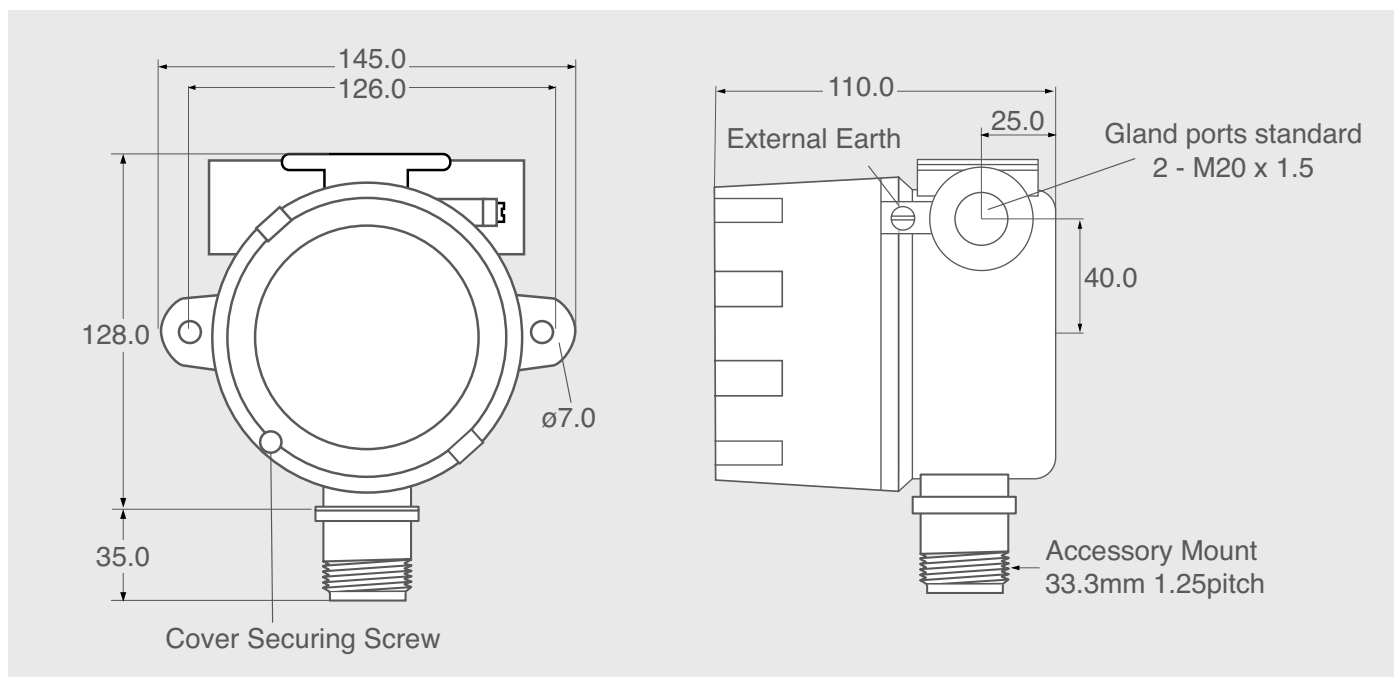
Temperature

–15°C to +55°C – safe area use

For hazardous area use see temperature ranges on C1227 (Ex certification summary)

Humidity

5 to 95% RH non-condensing



Accessories

003-010	Collector Cone & Universal Fitting
003-020	Universal fitting (Test Gas Applicator/ Spray Deflector)
003-035	Water Shield – stainless steel
008-311	Flow Block – nylatron
008-310	Flow Block – stainless steel
003-090	Duct Mount Kit
003-083	Detector Head Weather Shield
003-130	F1 Sensor Thermal Jacket

Replacement Parts

010-644	PID Bulb*
010-645	PID Electrode Stack
010-646	PID Spring
010-647	PID Extraction Tool

Sensor Type

Photo ionisation – PID

Target Gases

VOC's with ionisation potentials <10.6 eV

Range

Isobutylene 0–200ppm (0–1000ppm max)

Isobutylene 5ppb to 50ppm option

see gas listing G645

Overrange

Isobutylene 5000ppm

Response Time T90

<15 seconds

Operating Life

Expected 5 years (excluding replaceable lamp and electronic stack – * 12 months continuous operation)